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*Environmental
Drinking water
Recreational water
Wastewater*

fluidion
fluidic intelligence

San Diego Water Board Meeting April 12, 2017

*Overview of fluidion sampling and analysis technology
Applications to E. Coli monitoring*



fluidion
U.S. Inc.

www.fluidion.com

contact@fluidion.com

Automatic Lab-in-Vial E-coli Remote Tracking **ALERT** System

First-ever fully autonomous *in-situ*
E. Coli monitoring system:

- *Sample acquisition*
- *Reagent mixing & incubation*
- *Optical detection and quantification*
- *Data transmission*
- *Automatic alerts*



fluidion technology highlights

- Automated *in-situ* analysis system for monitoring needs
 - Water Quality (drinking, recreational, wastewater)
 - Environmental Monitoring
- Rapid assessment of water quality
- Remote connectivity

Manual sampling + Lab analysis fluidion ALERT system

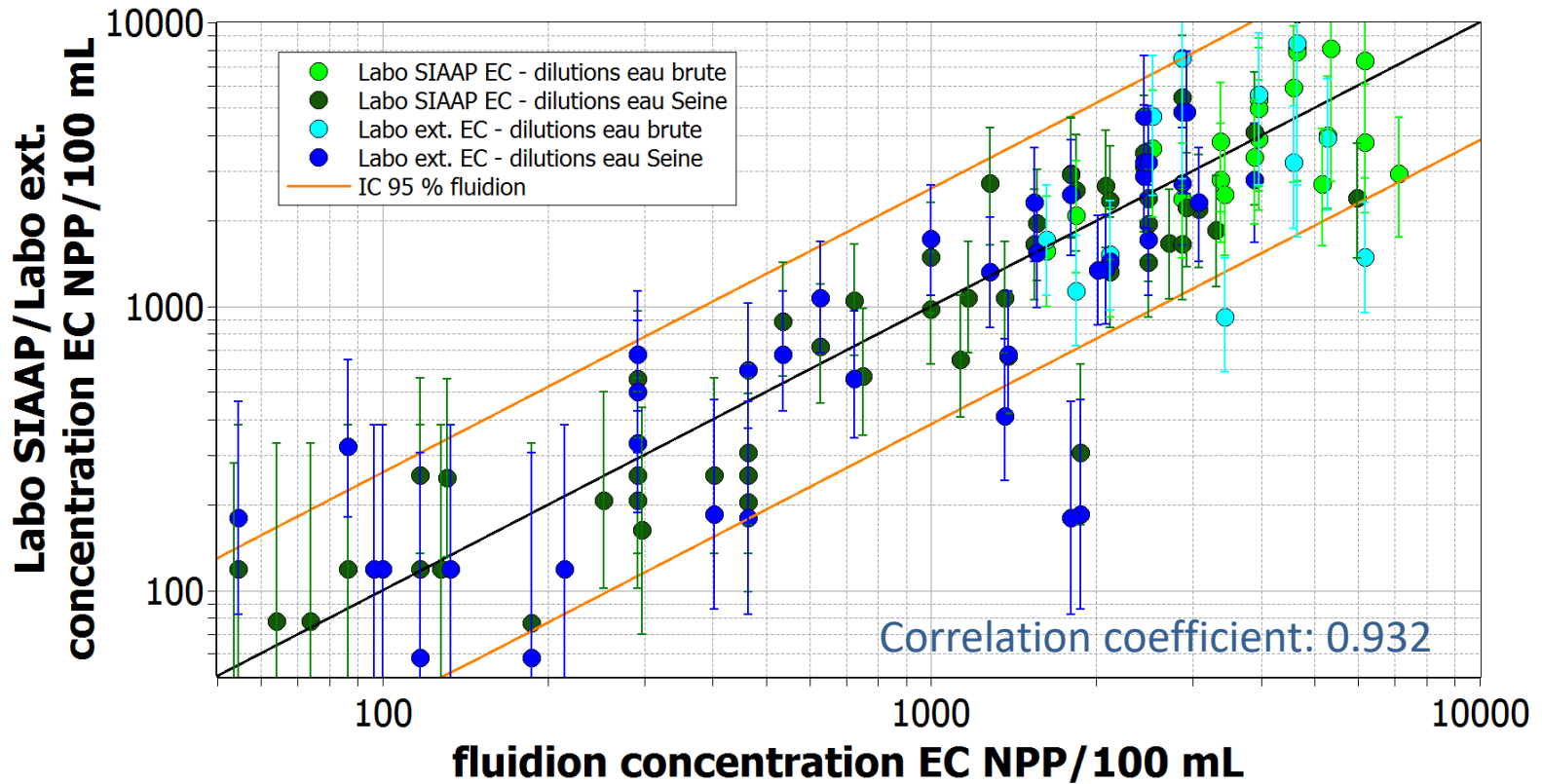


Connected Real-Time Field Products



E.Coli measurement validation

Comparison with standard laboratory measurements



ALERT installation & evaluation



LA Aqueduct Filtration plant
LADWP, Los Angeles



Cabrillo Beach, CA
SCCWRP

Partnerships:

LADWP

Paris Water Authority

SCCWRP

- John Griffith
- Meredith Raith

San Diego Water Board

- Helen Yu



Seine river tributary
Paris Water Authority



Tijuana River
San Diego Water Board

ALERT System Extensions

- ALERT LAB System
 - *Manual fluid sampling*
 - *Portable for measurements at field locations*
 - *Power options: car battery or electrical outlet*
 - *Ideal for locations without reliable network coverage*

- Monitoring environments
 - *E. Coli measurements validated for fresh water*
 - *Good results with seawater (open sea & estuary environments)*

- Other biological contaminants of interest
 - *Good results for Enterococci, validation study underway*



Thank you!

For additional information:

www.fluidion.com
contact@fluidion.com

USA (Los Angeles): +1 626 765 5580
France HQ (Paris): +33 182 390 290